GRITION, TWO POINT SYSTEM

BERTITS OF THIS SCHENKS ARE

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the greatest possible pressure will be produced at the instant when combustion is complete. At this instant, therefore, the piston should be at the top of its stroke. We must not overlook the fact, however, that some pressure is produced at the instant when ignition occurs and that this pressure will be constantly increasing as combustion spreads. If combustion is to be complete when the piston is at its top point it is clear that ignition must occur while the piston is still moving upward on the compression stroke. For the last portion of its stroke the piston will tend to be driven backward at the same time the momentum of the piston will tend to be driven backward at the same time the momentum of the power of the engine will thus be required to force the piston upward. Some of the power of the engine will thus be required to force the piston upward. Some of the power of the engine will thus be required to force the piston upward at mithing is ground, to the metal of the engine will thus be required to force the piston upward. Some of the power of the engine will thus be required to force the piston upward. Some of the power of the engine will thus be required to force the piston against the pressure in the combustion space to compare the power of the engine will thus be required to force the piston against the pressure in the combustion space to compare the power of the sound spark plug and second distributer, one spark plug and second distributer. The clear dayerising manager for the armature core is carried out through the second spark plug and second distributer winding, one distributer, one spark plug and second distributer the same time the momentum of the five the piston against the pressure in the combustion space to the span and the current and grounded on the engine and the current and grounded on the engine and the current and grounded on the span ground the current and grounded on the span ground the current after passing through the continue and the current after passing through the continue and instant when cor

pressures will be shown in abnormal wear of the wrist pin, crank pin and main bearings.

You have all had experience with a back fire when cranking an engine and know that it is the production of maximum pressure in the combustion space before the piston reaches the top of its stroke, the piston reaches the top of its stroke, the piston reaches the top of its stroke that the its against an engine starts to run hackward. This same condition in a lesser degree exists in a running engine under the normal condition of ignition occurring before top centre.

The charge of mixture represents a certain definite pressure upon the piston. To get the best possible results all of this pressure should be exerted against the piston when the latter is at the top of its stroke. If some off the pressure is exerted the piston when the latter is at the top of its stroke. If some off the pressure is exerted against the piston when the latter is at the top of its stroke. If some off the pressure is exerted against the piston when the latter is at the top of its stroke. If some off the pressure is exerted against the piston when the latter is at the top of its stroke. If some off the pressure is exerted against the piston when the latter is at the top of its stroke. If some off the pressure is exerted against the piston when the latter is at the top of its stroke. If some off the pressure is exerted against the piston when the latter is at the top of its stroke. If some off the pressure is exerted against the piston when the latter is at the top of its stroke. If some of the pressure is exerted against the piston when the latter is at the top of its stroke. If some of the pressure is exerted against the piston when the latter is at the top of its stroke. If some of the pressure is exerted against the piston when the latter is at the top of its stroke. If some of the pressure is exerted against the piston when the latter is at the top of its stroke. If some of the pressure is exerted against a double loss, for not only is the rotatio

AUTOMOBILES.

The Electric Automobile

The CIRRENT CARS

The Electric Automobile

BAKER ELECTRICS, 1798 Broadway. DETROIT ELECTRICS, Broadway at 80th St.
RAUCH & LANG ELECTRICS, Broadway at 58th St.

two spark ignition, and to get down to actual results it may be said that the Mar-mon and Lozier cars showed an actual

ness in October, 1909. The president of the company is William I. Colt, who was president of the Cleveland Motor Car Company, and later advertising manager for Hampton's. Harry L. Stratton is a captain in the Seventh Regiment and was vice-president of the Amalgamated Copper Company. One thing that did much to give the Cole cars a strong boost here was the victory in the Massapequa sweepstakes in connection with the Vanderbit cup races. J. J. Cole, president of the Cole Motor Car Company, is a former carriage manufacturer. He is a strong believer in racing.

"I firmly believe that a racetrack should be adjacent to every automobile factory," says he. "Each car should be tested out before it finally leaves the factory. By this I mean that a competent mechanic should give the motor a good shaking up. The car should be taken around the track at a fast clip and then looked over. In Indianapolis all of the automobile manufacturers have their cars tested on the speedway. We all agree that this is a good thing.

"The automobile manufacturer's respondent of the Cleveland Motor Car Company

ARMY ANGLE OF HORSESHOW. Madison Square Garden to He Gay With

All the hunters and chargers selected to repent the United Statesarmy at the Olym

Altred G. Vanderbill, president of the National Horse Show Association, cabled Robert A. Fairbairn, chairman of the executive committee, yesterday that he had extended an invitation on behalf of the directors to the King of Italy to have the Italian officers participate in the annual exhibition in Madison Square Garden. Invitations have again been sent to the French, Belgian and English war departments.

French, Belgian and English war departments.

"There will be a larger representation of foreign officers at our next show than at any of its predecessors," said Mr. Fairbairn yesterday, "and the visitors will only compete at the New York show."

"Our radical departure last year in beginning the exhibition a day earlier was so successful that the directors decided to hold a seven day show again this year, opening on Saturday, November is, and continuing until the following Saturday."

The Locations

CONOMY of Tires is a very important advantage of our shaft drive "Six." The Locomobile Six chassis, without sacrificing any of the strength and reliability for which our product is noted, is the lightest seven passenger six cylinder car on the market. have attained this progress and refinement by seven years study and development of the finest alloy steels that can be bought. Consequently the tires being large in size and lightly loaded give most satisfactory service and mileage. This feature will appeal to anyone, particularly a man who has driven a high powered Six and had trouble in this direction.

Economy of fuel is another marked superiority of our Six. One of our customers drove his Locomobile Six over the mountain passes from Los Angeles to Santa Barbara in California averaging over eleven miles to a gallon of fuel. Seven passengers were carried. Anyone who has watched the fuel consumption of a powerful six cylinder car will ap-

preciate what this means. excellent efficiency is largely the result of a new carbureter of our own design and construction, coupled of course with moderate weight and fine workmanship.

Add to the notable economy of this model the peculiar advantages of the six cylinder type, the reputation of the Locomobile, and the service we render customers, and we believe that the combined advantages will lead you to select the Locomobile Six.

We seek an opportunity to demonstrate its many advantages, and we should particularly like you to test its luxurious and easy riding qualities. This may be done without inconvenience or obligation. Our methods are free from insistent salesmanship.

We also direct attention to our "30" Locomobile, a four cylinder model of proven reliability. This is a very convenient car and is widely popular. High Tension Ignition, Shaft Drive and Four Speeds are used on all Locomobile cars.

The Locatobile Company of America

Broadway, Corner of 76th Street, New York

No-Rim-Cut Tires

Tires 10 per cent oversize—tires which can't rim-cut —tires used by 64 motor car makers

Do you know that Goodyear No-Rim-Cut tires have become the sensation

among men who know? Last year our tire sales increased 200%. This year 64 makers of motor cars have contracted for these tires. Over half a million have already been sold-enough to equip 125,000 cars.

Don't you wish to know why these patented tires have jumped into such popularity?

A 25% Saving

The fact that these tires can't be rimcut saves the average motorist 25%. For rim-cutting ruins more automobile tires than any other single cause. To run on a flat tire for even a block may wreck it beyond repair. Goodyear No-Rim-Cut tires -con-

trolled by our patlents-get rid of this trouble forever. We have run them flat as far as 20 miles. They simply can't be rim-cut.

Another 25% Goodyear No-Rim-Cut tires are made 10% oversize. The hookless base permits us to do that.

That means 10% more air -- 10% added carrying capacity. It takes care of the extras—the top, glass front, gas tank, etc. It avoids the overloading which otherwise occurs with nine cars

Overloading is the main cause of blow-outs. This 10% oversize, with the average car, adds 25% to the tire mileage. These two features together, as proved over and over, will double the service one gets from tires.

Last year these tires cost one-fifth figures show how many gladly paid the price. This year they cost nothing extra.

The saving is clear.
You'll get them if you insist on them.

Our Tire Book is based on 12 years of No-Rim-Cut Tires THE GOODYEAR TIRE & RUBBER COMPANY, Akres, Obio

We Make All Sorts of Rubber Thes nches and Ageneles in 103 Principal Cities New York City Branch, 64th and Broadway

HORACE MANN WINS. Does Well in Track Meet on New Athletic

The Horace Mann School track athletes beat Trinity yesterday at Alumni Field by 108 points to 61. It was the first track meet held on the new athletic grounds. meet held on the new athletic grounds, and the students were highly pleased to have it go their way by such a large margin. The athletic directors of the two schools tried to give as many boys as possible a chance to compete by putting on events for all classes, and they succeeded in getting out a record number of contestants. In the track events Horace Mann cleaned up point after point, and it was soon evident that Trinity would have very little show unless the field events were won. This was done pretty well, but not well enough to win the meet. The times were all very good. The closest race of all and the one most interesting was the 660 yards, which was won by C. Street of Horace Mann in the trinity thereof all very good. The closest race of all and the one most interesting was the 660 yards, which was won by C. Street of Horace Mann in the trinity there is the property of the condition of the closest race of all and the one most interesting was the 660 yards. pia show will be exhibited this week at the Washington horse show. The team to go to London will then be selected by Major Henry T. Allen, Chief Signal Officer, War Department, U. S. A. Judge Moore will be at the Washington show and will later send thirty horses to Olympia. He sails himself on May 31. which was won by C. Street of Horace Mann in 1 minute 32 4-5 seconds. Behind him Chapman of Trinity and O'Reilly of Horace

Chapman of Trinity and O'Reilly of Horace Mann were so close that it was almost impossible to pick the second man.

The individual honors were won by L. Quaintanse of Horace Mann, who took three firsts, the 100 yards and two broad jumps. Do nald Dietz of Trinity took second in the 100 yard run and won the broad jump 100 yard run and won the broad jump 100 yard run and won the The summary:

60 Vard Run, 90 Pound Class—Won by G.
Radelshelmer, Horace Mann: S. Schulord, Trinilv, second; A. Rice, Horace Mann, third; E.
Libhell, Horace Mann, fourth, Time, 74 5 seconds,
220 Vard Run, 155 Pound Class—Won by E.
Gunter, Horace Mann: P. Schonthal, Horace

Mann. second: W. Dunne, Horace Mann, third. Time, 25 2-5 seconds.
230 Yard Run, 110 Pound Class—Won by W. Dietz. Trinity; D. Duncan, Horace Mann, second: P. Andersea. Trinity, third: E. Simonson, Trinity, fourth. Time, 27 2-5 seconds.
640 Yard Run, 155 Pound Class—Won by C. Street, Horace Mann, D. Duncan, Horace Mann, second: E. Niles, Horace Mann, third; W. O Reilly, therace Mann, ourth. Time, 2 minutes 10 2-5 seconds.

Trinity, third: D. Graves, Horace Mann. fourth.
Time, 8 seconds.

109 Yar'l Run. 110 Pound Class. Won by D. Dungam, Horace Mann. 20 Yard Run. 100 Pound Class. Won by D. Dungam, 100 Yard Run. 100 Pound Class. Won by D. Dungam, 100 Yard Run. 100 Pound Class. Won by D. Dungam, 100 Yard Run. 100 Pound Class. Won by D. Dungam, 100 Yard Run. 100 Pound Class. Won by D. Dungam, 100 Yard Run. 100 Pound Class. Won by D. Dungam, 100 Yard Run. 100 Pound Class. Won by D. Dungam, 100 Yard Run. 100 Pound Class. Won by D. Dungam, 100 Yard Run. 100 Pound Class. Won by D. Dungam, 100 Yard Run. 100 Yar

"A Cariforthe-Discriminating Few"

Traveller De Luxe 50 H. P. \$4,250 AND THE NEW

Traveller "30" at \$2,250

Will be in their New Home Southeast Corner of Broadway and 63d Street after July 1st

Five of the best Sportsmen in the United States to whom price is nothing, but quality everything, have recently purchased these cars

It will pay you to Investigate

THE AMERICAN AGENCY

Broadway and 54th Street

Trinity, fourth, with a jump of 13 feet 7½ Frelinghuysen vice-president. The judges are Frank M. Ware, Hamilton H. Salmon, unning Broad Jump, 100 Pound Class Won B. Benjamin, Trinity, with a jump of 14 feet ches; C. Wildman, Trinity, second, with a jump of 6 Philadelphia and Capt. Charles W. Fenton, Second United States Cavalry. Running Broad Jump, 100 Pound Class Won by F. Benjamin, Trinity, with a Jump of 14 feet 6 Inches; C. Wildman, Trinity, second, with a Jump of 13 feet 84; Inches; G. Radelscheimer, Horace Mann, third, with a Jump of 13 feet 84, inches; K. Updyke, Trinity, fourth, with a jump of 12 feet 8 inches.

N. E. Corner

NEW YORK

LONG BEACH, L. I., April 29 .- Members of